

Cover Letter

Irakli Chakaberia
Kansas State University

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Postdoctoral Position Case Western Reserve University - LUX Experiment

Dear Dr. Akerib,

Meeting with you during your recent visit to KSU encouraged me to expedite my application for the LUX postdoctoral job at CWR University. Among other things, we talked about the qualities you are looking for in the ideal candidate for the position, which were the fusion of the skills in statistical data analysis and experience of working with the detector, strong knowledge of particle physics, and keen interest in the dark matter search.

Currently, I am working on the CMS experiment, which involves the statistical data analysis of one of the biggest datasets collected. The data has to be analyzed considering the extremely harsh conditions caused by the highest energies and luminosities ever reached in colliders. I have worked on the commissioning of the CMS pixel detector while it was still being tested, calibrated and assembled. After its insertion into the CMS detector, I worked very closely on its calibration and commissioning at CERN. I was also involved in the CMS pixel detector upgrade project for the LHC Run II. Besides being involved in the CMS hardware, I also became familiar with its soft side. Huge and complex experiment, like the CMS, requires lots of monitoring tools. I developed online monitoring tools as part of the WebBased Monitoring team. Further, I have supervised the offline DQM shifts and conducted the trainings for the shift-takers.

I believe, the skills and experience I summarized in short make me a good hunter for the WIMPs.

I attach my application documents for your consideration:

- Curriculum Vitae
- Statement of Research Interests
- List of Publications

Following referees will provide the recommendation letters directly

- **Dr. Tim Bolton** - Kansas State University : bolton@phys.ksu.edu
- **Dr. Danek Kotlinski** - Paul Scherrer Institute : danek.kotlinski@psi.ch
- **Dr. Kaori Maeshima** - Fermilab : maeshima@fnal.gov

I look forward to hearing from you. Please feel free to contact me if you need any additional information.

Sincerely,

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